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(54) **HEAT-RESISTANT CERAMICS MOLDING AND PRODUCTION THEREOF**

(57) Abstract:

PURPOSE: To obtain a heat-resistant ceramics molding suitable as a reflecting mirror base, having essentially $\leq 0.03\mu\text{m}$ average surface roughness.

CONSTITUTION: A glass molding comprising 50-60wt.%

SiO_2 , 18-30wt.% Al_2O_3 , 3-8wt.% Li_2O , 3-5wt.% $\text{TiO}_2+\text{ZrO}_2$, $\leq 8\text{wt.}\%$ total amount of P_2O_5 and(or) B_2O_3 , 0.3-7.0wt.% RO (R is Mg, Ca, Zn, Pb or V) and $\leq 3.0\text{wt.}\%$ R_2O (R is K or Na) is heat-treated and a BN-spodumene solid solution or β -eucryptite is formed to give a heat-resistant ceramics molding having essential surface smoothness.

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